

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)

DATE

February 2000

BUDGET ACTIVITY

PE NUMBER AND TITLE

06 - Management and Support**0604256F Threat Simulator Development**

COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost	32,054	31,672	34,785	37,990	39,993	42,673	43,516	Continuing	TBD
662907 Electronic Combat Intel Support	1,886	1,708	1,968	1,882	1,913	2,033	2,053	Continuing	TBD
663321 Electronic Warfare Ground Test Resources	30,168	27,610	26,687	29,078	30,893	33,333	33,964	Continuing	TBD
667500 Foreign Material Acquisition/Exploitation	0	2,354	6,130	7,030	7,187	7,307	7,499	Continuing	TBD
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0

(U) A. Mission Description

This PE provides funding for the elements necessary to support the AF Electronic Warfare (EW) Test Process. This test process provides a scientific methodology to ensure the effective disciplined and efficient testing of AF EW and avionics systems. Each capability or facility improvement is pursued in concert with the others so as to avoid duplicate capabilities while at the same time producing the proper mix of test resources needed to support the AF EW Test Process. This PE provides funding for the management and technical oversight of implementation activities, the Air Force-led tri-Service effort to establish a common modeling and simulation architecture, development and improvement of digital EW models, measurement facilities operation and improvements, hardware in the loop test facilities operation and improvements, installed system test facility improvements, and development and improvement of open air threat simulators for flight testing. This PE also provides funding for planning, management, budgetary, and technical support to the Air Force for corporate-level implementation of the Electronic Warfare (EW) Test Process and for improvement and modernization (I&M) and application of the test and evaluation (T&E) infrastructure. Support includes requirements definition and analysis, project planning, programming and budgeting, technical oversight, and application of T&E facility I&M. Products include studies, analyses, and related documentation. This PE provides funding to support the acquisition and exploitation efforts of the Foreign Materiel Program, as well as to support EW intelligence efforts, beginning in FY 00.

(U) B. Budget Activity Justification

This Program Element is in Budget Activity 6, Management Support, because it is a Research and Development (R&D) effort for Improvement and Modernization of T&E capabilities at Air Force Test Centers.

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06 - Management and Support**0604256F Threat Simulator Development**(U) C. Program Change Summary (\$ in Thousands)

	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>Total Cost</u>
(U) Previous President's Budget (FY 2000 PBR)	34,086	32,391	36,848	
(U) Appropriated Value	34,582	32,391		
(U) Adjustments to Appropriated Value				
a. Congressional/General Reductions	-496	-29		
b. Small Business Innovative Research	-679			
c. Omnibus or Other Above Threshold Reprogram	-300	-485		
d. Below Threshold Reprogram	-873			
e. Rescissions	-180	-205		
f. Other				
(U) Adjustments to Budget Years Since FY 2000 PBR			-2,063	
(U) Current Budget Submit/FY 2001 PBR	32,054	31,672	34,785	TBD
(U) <u>Significant Program Changes:</u>				

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)								DATE February 2000	
BUDGET ACTIVITY 06 - Management and Support				PE NUMBER AND TITLE 0604256F Threat Simulator Development				PROJECT 662907	
COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
662907 Electronic Combat Intel Support	1,886	1,708	1,968	1,882	1,913	2,033	2,053	Continuing	TBD
<p>(U) <u>A. Mission Description</u></p> <p>This project provides funding to support Foreign Materiel Operational Test and Evaluation (FMOT&E), which ensures the ability of operational commands to test and develop effective Electronic Attack/Electronic Protection (EA/EP) techniques and tactics. Funds are required for: deployment of blue systems to test facilities, travel for personnel to the test sites to evaluate and validate test results real-time, range and laboratory costs; costs for instrumentation of blue systems; contracted engineering support for the conduct of tests and subsequent reporting. Funding for this program is required to prevent future aircraft losses due to improper and inaccurate aircrew tactics (e.g., lack of evasive action or proper tactics training to avoid missile attack).</p> <p>(U) <u>FY 1999 (\$ in Thousands)</u></p> <p>(U) \$1,571 Funded fighter and bomber testing for foreign material operational exploitation. Extensive evaluations and reports were accomplished.</p> <p>(U) \$236 Funded transport aircraft for foreign material operational exploitation. Extensive evaluations and reports were accomplished.</p> <p>(U) \$79 Funded classified operational assessments for foreign material operational exploitation. Extensive evaluations and reports were accomplished.</p> <p>(U) \$1,886 Total</p> <p>(U) <u>FY 2000 (\$ in Thousands)</u></p> <p>(U) \$1,372 Funds fighter and bomber testing for foreign material operational exploitation. Extensive evaluations and reporting to be accomplished.</p> <p>(U) \$281 Funds transport aircraft for foreign material operational exploitation. Extensive evaluations and reporting to be accomplished.</p> <p>(U) \$55 Funds classified operational assessments for foreign material operational exploitation. Extensive evaluations and reporting to be accomplished.</p> <p>(U) \$1,708 Total</p> <p>(U) <u>FY 2001 (\$ in Thousands)</u></p> <p>(U) \$1,553 Funds fighter and bomber testing for foreign material operational exploitation. Extensive evaluations and reporting to be accomplished.</p> <p>(U) \$344 Funds transport aircraft for foreign material operational exploitation. Extensive evaluations and reporting to be accomplished.</p> <p>(U) \$71 Funds classified operational assessments for foreign material operational exploitation. Extensive evaluations and reporting to be accomplished.</p> <p>(U) \$1,968 Total</p> <p>(U) <u>B. Project Change Summary</u></p> <p>None</p>									
<div style="display: flex; justify-content: space-between;"> Project 662907 Page 3 of 11 Pages Exhibit R-2A (PE 0604256F) </div>									

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)										DATE February 2000		
BUDGET ACTIVITY 06 - Management and Support					PE NUMBER AND TITLE 0604256F Threat Simulator Development					PROJECT 662907		
(U) <u>C. Other Program Funding Summary (\$ in Thousands)</u>												
	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>Cost to</u>	<u>Total Cost</u>			
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>				
(U) AF RDT&E												
(U) Other APPN												
None												
(U) <u>D. Acquisition Strategy</u>												
Not applicable.												
(U) <u>E. Schedule Profile</u>												
	<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Not applicable. Discrete tasks vary depending on availability of FMA hardware and exploitation schedules. The annual budget is based on supporting up to eight opportunities for operational units to conduct quick look assessments of available FMA.												

Project 662907
Page 4 of 11 Pages
Exhibit R-2A (PE 0604256F)

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)

DATE

February 2000

BUDGET ACTIVITY

06 - Management and Support

PE NUMBER AND TITLE

0604256F Threat Simulator Development

PROJECT

663321

COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
663321 Electronic Warfare Ground Test Resources	30,168	27,610	26,687	29,078	30,893	33,333	33,964	Continuing	TBD

(U) **A. Mission Description**

The AF requires a comprehensive set of test facilities to implement the Air Force Electronic Warfare (EW) Test Process. To manage program risk effectively throughout the weapon system acquisition process, and conduct test and evaluation (T&E) effectively and efficiently, a spectrum of T&E capabilities from modeling and simulation through open-air ranges is required. The EW Test Process Support task provides for investment management, coordinated technical oversight, and application of EW T&E facilities, including studies, analyses, and related documentation. The Joint Modeling and Simulation System (JMASS) is an Air Force-led, tri-service project to establish a common, DoD-wide, digital simulation architecture and set of models in support of T&E. FY00 funding for the JMASS architecture and software development transitioned to PE 27601F. Prior to FY00, the EW T&E Modeling & Simulations (M&S) program provided funds to support Missile and Space Intelligence (MSIC) and National Air Intelligence Center (NAIC) in the development of Electronic Combat (EC) capable threat engagement models using the JMASS architecture. From FY00 and beyond, JMASS model development funds will be programmed under other Program Elements. The EW T&E M&S program will lead correlation, verification and validation activities of integrated simulations of validated models across the EW test facilities using the Silver Bullet measurement capability. The National RCS Test Facility - NRTS (formerly Radar Target Scatter (RATSCAT)) upgrade project provides improvements to the NRTS at Holloman AFB, NM, to support radar cross section (RCS) measurement requirements of DoD customers, with either conventional or stealth systems. The Air Force Electronic Warfare Evaluation Simulator (AFEWES) and the Digital Integrated Air Defense System (DIADS), provide the ability to realistically evaluate hardware components and simulated weapon systems against manned hardware threat representations throughout the acquisition process. AFEWES provides simulations of advanced Infrared (IR) & Radio Frequency (RF) Surface-to-Air Missiles (SAMs) and Air-to-Air Missiles (AAMs), IR/ Ultra-violet (UV) & RF missile warning, end-to-end testing of the missile warning/IR Countermeasure function; integration of actual threat hardware and ground clutter into advanced threat RF and IR missile simulations. DIADS provides algorithm based enemy command and control (C2) capabilities plus early warning radar detection and limited ground control intercept features and also allows man-in-the-loop interaction for the enemy C2 positions. The Electronic Combat Integrated Test (ECIT) project upgrades the AF Hardware-in-the-Loop (HITL), System Integration Labs (SIL), and Installed System Test Facility (ISTF) at Edwards AFB, CA. The HITL and SILs at Edwards allow for the stimulation of real aircraft avionics with the benefit of a laboratory environment. The AF ISTF consists of a large, instrumented, anechoic chamber which provides for evaluation of EW systems when installed on its host aircraft, both prior to and throughout the flight test program. The goal of the ECIT upgrade is to integrate coherent EW threat stimulators into the ground test facilities at Edwards and modernize instrumentation/test operation capabilities. In FY 99 ECIT began a 3-year effort to fund the purchase of EW equipment in support of the F-22's Integrated Hardware-In-The-Loop Avionics Test (IHAT) capability. The IHAT capability is being transferred to Edwards AFB, CA from Marietta, GA. In FY 00, the Air Warfare Mission Simulator (AWMS) program will provide the electronic warfare capability into the high fidelity reconfigurable cockpits being developed under PE64759. This program will also provide the capability to link the high fidelity cockpits into the information battlespace via High Level Architecture (HLA).

Project 663321

Page 5 of 11 Pages

Exhibit R-2A (PE 0604256F)

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)		DATE February 2000
BUDGET ACTIVITY 06 - Management and Support	PE NUMBER AND TITLE 0604256F Threat Simulator Development	PROJECT 663321
<p>(U) <u>A. Mission Description Continued</u></p> <p>(U) <u>FY 1999 (\$ in Thousands)</u></p> <p>(U) \$527 EW Test Process Support. Conducted requirements analyses and other studies in support of Air Force investments in EW test infrastructure. Completed cost-benefit analysis of digital modeling and simulation (M&S) in support of the EW Test Process.</p> <p>(U) \$7,500 JMASS. Established the JMASS Joint Program Office (JPO). Initiated development of joint version of the JMASS software, which affords compatibility with the DoD High-Level Architecture (HLA). Completed transition of JMASS to PCs and UNIX computer platforms. Continued development and integration of JMASS-compliant threat models to support the needs of various DoD customers. The EW Test and Evaluation Modeling and Simulation (EW T&E M&S) completed funding the intelligence agencies to develop JMASS compliant, digital threat models required by the B-1B DSUP customer to support the EW Test Process. Specifically the intel agencies completed development of the JMASS RF environment model, completed development of the Surface-to-Air Digital Simulator (SADS) 2c/e, finished development of an Air Intercept / Air-to-Air Missile (AI/AAM) model, and the JMASS program office established a JMASS library. Began development of verification and validation process for integrated simulations configured to support development and operational testing. Began correlation process development and correlation implementation between EW test facilities being supported by Silver Bullet.</p> <p>(U) \$1,774 RATSCAT Upgrades. Achieved Initial Operational Capability (IOC) of BICOMS Mobile Radar. Integrated and achieved IOC of RATSCAT Advanced Measurement System (RAMS) Radar Replacement. Began development on improved RAMS pylon.</p> <p>(U) \$2,486 AFEWES Operation. Continued AFEWES operation in support of Air Force, Army, Navy, and non-DoD test customers. Continued development of semi-active SAM simulations (SAM-C1 and SAM-E) simulations, and began development of Advanced Simulator modifications (SAM-C2)</p> <p>(U) \$6,097 DIADS. Provided mission level simulation for evaluating the survivability of aircraft penetrating an enemy air defense system. Began verification and validation efforts of DIADS baseline. Began development of external linking and BLUE IADS capabilities, in support of AF, Army, Navy, and non-DoD test customers.</p> <p>(U) \$11,784 ECIT. Continued Infrastructure and Generic Test Capability (I&GTC), which provides RF simulation capability between the I&GTC and the CTEIP-funded Generic Radar Target Generator (GRTG), Infrared Sensor Simulator (IRSS), and Communications-Navigation-Identification (CNI) simulator, to support F-22 and other advanced weapon systems requirements. Completed development and acceptance of the Network and Controls portion of the I&TGC effort. Began initial planning and purchase of EW equipment in support of the F-22's Integrated Hardware-in-the-loop Avionics Test (IHAT) capability at Edwards AFB.</p> <p>(U) \$30,168 Total</p>		
Project 663321	Page 6 of 11 Pages	Exhibit R-2A (PE 0604256F)

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)		DATE February 2000
BUDGET ACTIVITY	PE NUMBER AND TITLE	PROJECT
06 - Management and Support	0604256F Threat Simulator Development	663321
(U) <u>A. Mission Description Continued</u>		
(U) <u>FY 2000 (\$ in Thousands)</u>		
(U) \$896	EC Test Process Support. Conduct requirements analyses and other studies in support of Air Force investments in EW test infrastructure. Provide systems engineering/technical assistance (SETA) support for Air Force implementation of the EW Test Process, including improvement and modernization (I&M) of the EW test infrastructure.	
(U) \$3,947	EW Test and Evaluation Modeling and Simulation (EW T&E M&S). Continue development of verification and validation process for integrated simulations configured to support development and operational testing. Continue correlation process development and correlation implementation between EW test facilities being supported by Silver Bullet. Begin study of requirements to migrate realistic sensor information from the EC environment into cockpit simulators in support of the Air Warfare Mission Simulator (AWMS) program.	
(U) \$1,959	NRTF Upgrades. Complete development on RAMS Pylon. Complete industry partnership efforts with first major EW supplier.	
(U) \$5,872	AFEWES. Continue AFEWES operation in support of Air Force, Army, Navy, and non-DoD test customers to include defining requirements for upgrades to the IR laboratory. Complete development of Advance Simulator Modifications (SAM-C2), and begin development of advanced RF semi-active SAM simulations (SAM-D).	
(U) \$2,772	DIADS. Continue providing mission level simulation for evaluating the survivability of aircraft penetrating an enemy air defense system. Continue verification and validation efforts required for achieving IOC of DIADS baseline. Continue development of external linking and BLUE IADS capabilities, in support of AF, Army, Navy, and non-DoD test customers. Begin support of major OT customers with RED IADS scenario generation and execution.	
(U) \$12,164	ECIT. Complete IOC of Infrastructure and Generic Test Capability (I>C), which provides RF simulation capability between the I>C and the CTEIP-funded Generic Radar Target Generator (GRTG), Infrared Sensor Simulator (IRSS), and Communications-Navigation-Identification (CNI) simulator, to support F-22 and other advanced weapon systems requirements. Begin requirements definitions and acquisition planning to fully integrate the suite of simulators/stimulators into a coherent multi-spectral test environment. Continue purchase and integration of EW equipment in support of the F-22's Integrated Hardware-in-the-loop Avionics Test (IHAT) capability.	
(U) \$27,610	Total	
(U) <u>FY 2001 (\$ in Thousands)</u>		
(U) \$909	EC Test Process Support. Conduct requirements analyses and other studies in support of Air Force investments in EW test infrastructure. Provide systems engineering/technical assistance (SETA) support for Air Force implementation of the EW Test Process, including improvement and modernization (I&M) of the EW test infrastructure.	
(U) \$3,919	EW Test and Evaluation Modeling and Simulation (EW T&E MS). Continue development of verification and validation process for integrated simulations configured to support development and operational testing. Continue correlation process development and correlation implementation between EW test facilities being supported by Silver Bullet. Complete AWMS requirement study and develop acquisition	
Project 663321	Page 7 of 11 Pages	Exhibit R-2A (PE 0604256F)

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)		DATE February 2000
BUDGET ACTIVITY 06 - Management and Support	PE NUMBER AND TITLE 0604256F Threat Simulator Development	
		PROJECT 663321

(U) **A. Mission Description Continued**

(U) **FY 2001 (\$ in Thousands) Continued**

strategy to provide realistic EC sensor information into cockpit simulators.

(U) \$1,692 NRTF Upgrades. Enhance efficiency of operations and accuracy of measurements. Expand partnerships with major industry EW suppliers.

(U) \$6,092 AFEWES. Continue AFEWES operation in support of Air Force, Army, Navy, and non-DoD test customers to include initiation of IR lab upgrade effort. Complete development of advanced simulator modifications (SAM-C2). Complete development of advanced RF semi-active SAM simulation (SAM-D), and begin development of a second advanced RF semi-active SAM simulation (SAM-F).

(U) \$3,451 DIADS. Continue providing mission level simulation for evaluating the survivability of aircraft penetrating an enemy air defense system by updating the IADS scenario with current intel data. Complete verification and validation efforts required to achieve IOC of DIADS baseline. Continue development of external linking and BLUE IADS capabilities, in support of AF, Army, Navy, and non-DoD test customers.

(U) \$10,624 ECIT. Complete FOC of Infrastructure and Generic Test Capability (I>C), which provides RF simulation capability between the I>C and the CTEIP-funded Generic Radar Target Generator (GRTG), Infrared Sensor Simulator (IRSS), and Communications-Navigation-Identification (CNI) simulator, to support F-22 and other advanced weapon systems requirements. Begin requirements definitions and acquisition planning to fully integrate the suite of simulators/stimulators into a coherent multi-spectral test environment. Complete purchase of EW equipment in support of the F-22's Integrated Hardware-in-the-loop Avionics Test (IHAT) capability.

(U) \$26,687 Total

(U) **B. Project Change Summary**

(U) **C. Other Program Funding Summary (\$ in Thousands)**

	<u>FY 1999</u> <u>Actual</u>	<u>FY 2000</u> <u>Estimate</u>	<u>FY 2001</u> <u>Estimate</u>	<u>FY 2002</u> <u>Estimate</u>	<u>FY 2003</u> <u>Estimate</u>	<u>FY 2004</u> <u>Estimate</u>	<u>FY 2005</u> <u>Estimate</u>	<u>Cost to</u> <u>Complete</u>	<u>Total Cost</u>
(U) AF RDT&E									
(U) Other APPN									
(U) Related RDT&E:									
(U) PE 0604759F, Major T&E Investment									
(U) PE 0604940D, Central T&E Investment Program									

(U) **D. Acquisition Strategy**

Contracts funded from this program are predominately awarded on the basis of full and open competition.

Project 663321
Page 8 of 11 Pages
Exhibit R-2A (PE 0604256F)

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)

DATE

February 2000

BUDGET ACTIVITY

PE NUMBER AND TITLE

PROJECT

06 - Management and Support

0604256F Threat Simulator Development

663321

(U) E. Schedule Profile

	<u>FY 1999</u>				<u>FY 2000</u>				<u>FY 2001</u>			
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Establish JMASS JPO	*											
(U) ECIT Infrastructure and Generic Test Capability (I>C) IOC									X			
(U) ECIT SIL Integration					X							
(U) ECIT BAF Integration											X	
(U) Digital Integrated Air Defense System Baseline Start/Complete			X									X
(U) AFEWES SAM-C Upgrade						X						
(U) AFEWES SAM-D Development Start/ Complete							X					X
(U) AFEWES SAM-E Dev Complete								X				
(U) AFEWES SAM-F Dev Start										X		
(U) AFEWES IR Lab Upgrade									X			
(U) EW T&E M&S Threat Models Complete		*										
(U) BICOMS Radar IOC / FOC			*		*							
(U) RAMS Replacement Radar IOC			*									
(U) RAMS Pylon IOC						X						
(U) RAMS Pylon FOC								X				

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)								DATE February 2000	
BUDGET ACTIVITY 06 - Management and Support				PE NUMBER AND TITLE 0604256F Threat Simulator Development				PROJECT 667500	
COST (\$ in Thousands)	FY 1999 Actual	FY 2000 Estimate	FY 2001 Estimate	FY 2002 Estimate	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	Cost to Complete	Total Cost
667500 Foreign Material Acquisition/Exploitation	0	2,354	6,130	7,030	7,187	7,307	7,499	Continuing	TBD
<p>(U) <u>A. Mission Description</u></p> <p>This project is established for the specific purpose of supporting the USAF requirements for Foreign Materiel Program in the acquisition and exploitation of foreign materiel. Items considered for these Foreign Materiel Acquisition and Exploitation (FMA&E) funds are included in the prioritized Air Force Foreign Materiel Acquisition (FMA) list established each year. Each MAJCOM prepares and approves a Foreign Materiel - Mission Need Statement for each requirement. Annually, the MAJCOM commanders establish a list of their top 20 requirements. The MAJCOM's requirements list are then integrated into an Air Force requirement list. Each MAJCOM then approves the AF list and requirements, and final validation comes from the Air Force Vice Chief of Staff. Exploitations are based on and driven by acquisitions. The list is classified secret. The USAF is tasked by OSD to be the DoD Executive Agent for all threat aircraft, air-to-air missiles, and early warning radars. As the Executive Agent, the AF is tasked to acquire, exploit and provide data to all DoD components.</p> <p>(U) <u>FY 1999 (\$ in Thousands)</u></p> <p>(U) \$0 No Activity</p> <p>(U) \$0 Total</p> <p>Not applicable.</p> <p>(U) <u>FY 2000 (\$ in Thousands)</u></p> <p>(U) \$1,765 Funds the acquisition of Foreign Materials IAW the prioritized Air Force Foreign Material Acquisition list; subject to assets availability.</p> <p>(U) \$350 Funds the exploitation of acquired Foreign Materials IAW prioritized lists and specific exploitation plans.</p> <p>(U) \$239 Funds the operations and maintenance of the specialized Foreign Material assets.</p> <p>(U) \$2,354 Total</p> <p>(U) <u>FY 2001 (\$ in Thousands)</u></p> <p>(U) \$2,595 Funds the acquisition of Foreign Materials IAW the prioritized Air Force Foreign Material Acquisition list; subject to assets availability.</p> <p>(U) \$2,957 Funds the exploitation of acquired Foreign Materials IAW prioritized lists and specific exploitation plans.</p> <p>(U) \$578 Funds the operations and maintenance of the specialized Foreign Material assets.</p> <p>(U) \$6,130 Total</p> <p>(U) <u>B. Project Change Summary</u></p> <p>Significant Program Changes:</p>									
<div style="display: flex; justify-content: space-between;"> Project 667500 Page 10 of 11 Pages Exhibit R-2A (PE 0604256F) </div>									

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2A Exhibit)										DATE February 2000		
BUDGET ACTIVITY 06 - Management and Support					PE NUMBER AND TITLE 0604256F Threat Simulator Development					PROJECT 667500		
(U) <u>C. Other Program Funding Summary (\$ in Thousands)</u>												
	<u>FY 1999</u>	<u>FY 2000</u>	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>Cost to</u>	<u>Total Cost</u>			
	<u>Actual</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Estimate</u>	<u>Complete</u>				
(U) AF RDT&E												
(U) Other APPN												
None.												
(U) <u>D. Acquisition Strategy</u>												
Not applicable.												
(U) <u>E. Schedule Profile</u>												
	<u>FY 1999</u>			<u>FY 2000</u>			<u>FY 2001</u>					
	1	2	3	4	1	2	3	4	1	2	3	4
(U) Not applicable. Details are classified and are reported through other channels.												

Project 667500
Page 11 of 11 Pages
Exhibit R-2A (PE 0604256F)